

PRODUCTION OF ALPHA-OLEFIN OLIGOMER

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Abstract of JP9012627

PURPOSE: To obtain an oligomer of an α -olefin such as 1-hexene in high yields and selectivity industrially advantageously without any complicated operation by using a specified chromium catalyst containing a specified halogen compound in a specified manner of contact.

CONSTITUTION: A catalyst system comprising a combination of a chromium compound (a), at least one nitrogen compound (b) selected from among amines, amides and imides, an alkylaluminum compound (c) and a halogen compound (d) is used as the chromium catalyst. Before the oligomerization reaction begins in a solvent in the simultaneous presence of the components (a) to (d), the components (a) to (d) are fed into the reaction system in such a manner that the chromium compound is kept from being in contact with the aluminum compound and brought into contact with an α -olefin. The component (d) used should be an allyl halide compound of the formula (wherein X1 to X3 are each H or a 1-30C alkyl; and X4 to X6 are each H, a 1-30C alkyl or a halogen).

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